

**A**

1 cccgccttcc tagctgtccc agtggagaag gaacaagcgc ctactgcat ctgtgcaaac  
61 gggcggcaaa ctgtgtcctg ggcagtaacc ccaaagtcac taggaaatgt gaatttcact  
121 gtgagcgagc aggcactaga gtctcaagag ctgtgtggga ctgaggtgcc ttcagttcct  
181 gaacacggaa ggaaagacac agtcatcaag cctctgttgg ttgaacctga aggactagag  
241 aaggaaacaa cattcaactc cctactttgt ccatcagggtg gtgaggtttc tgaagaatta  
301 tccctgaaac tggcaccaaa tgtggtagaa gaatctgccc gagcttctgt ctgagttttg  
361 ggagacatat taggtctctgc catgcaaaac acacaaaatc ttctccagat gccctatggc  
421 tgtggagagc agaatatggt cctcttttgc cctaacatct atgtactgga ttatctaaat  
481 gaaacacagc agcttactcc agagatcaag tccaaggcca ttggctatct caacactggt  
541 taccagagac agttgaacta caaacactat gatggctcct acagcacctt tggggagcga  
601 tatggcagga accagggcaa cacctggctc acagcctttg ttctgaagac ttttgcccaa  
661 gctcgagcct acatcttcat cgatgaagca cacattaccc aagccctcat atggctctcc  
721 cagaggcaga aggacaatgg ctgtttcagg agctctgggt cactgctcaa caatgccata  
781 aaggaggag tagaagatga agtgaccctc tccgcctata tcaccatcgc ccttctggag  
841 attcctctca cagtactca ccctgttgtc cgcaatgccc tgttttgcct ggagtcagcc  
901 tggaagacag cacaagaagg ggaccatggc agccatgtat ataccaaaga cctgctggcc  
961 tatgcttttg ccctggcagg taaccaggac aagaggaagg aagtactcaa gtcacttaat  
1021 gaggaagctg tgaagaaaga caactctgtc cattgggagc gccctcagaa acccaaggca  
1081 ccagtggggg atttttacga accccaggct ccctctgctg aggtggagat gacatcctat  
1141 gtgctcctcg cttatctcac ggcccagcca gccccaacct cggaggacct gacctctgca  
1201 accaacatcg tgaagtggat cacgaagcag cagaatgccc agggcggttt ctctccacc  
1261 caggacacag tgggtggctct ccatgctctg tccaaatatg gagcagccac atttaccagg  
1321 actgggaagg ctgcacaggt gactatccag tcttcaggga cattttccag caaattccaa  
1381 gtggacaaca acaaccgctt gttactgcag caggctctcat tgccagagct gcctggggaa  
1441 tacagcatga aagtgcagag agaaggatgt gtctacctcc agacatcctt gaaatacaat  
1501 attctcccag aaaaggaaga gttccccttt gctttaggag tgcagactct gcctcaaact  
1561 tgtgatgaac ccaaagccca caccagcttc caaatctccc taagtgtcag ttacacaggg  
1621 agccgctctg cctccaacat ggcgatcggt gatgtgaaga tggctctctg cttcattccc  
1681 ctgaagccaa cagtgaataa gcttgaaaga tctaaccatg tgagccggac agaagtcagc  
1741 agcaaccatg tcttgattta ccttgataag gtgtcaaata agacactgag cttgttcttc  
1801 acggttctgc aagatgtccc agtaagagat ctgaaaccag ccatagtgaag agtctatgat  
1861 tactacgaga cggatgagtt tgcaattgct gagtacaatg ctcttgcag caaagatcct  
1921 ggaaatgctt gaagaccaca aggtgaaaa gtgctttgct ggagtcctgt tctcagagct  
1981 ccacagaaga cacgtgtttt tgtatcttta aagacttgat gaataaacac tttttctggt  
2041 c

**B**

PAFLAVPVEKEQAPHICANGRQTVSWAVTPKSLGNVNFTVSAEALLESQELCGTEVPSVPEHGRKDTVIKPL  
LVEPEGLEKETTFNSLLCPSGGEVSEELSLKLPPNVVEESARASVSVLGDILGSAMQNTQNLQMPYGCGEQ  
NMVLFAPNIYVLDYLNQTLTPEIKSKAIGYLNQTYQRQLNYKHYDGSYSTFGERYGRNQGNLTWLTAFVLK  
TFAQARAYIFIDEAHITQALIWLSQRQKDNCFRSSGSLNNAIKGGVEDEVTL SAYITIALLEIPLTVTHP  
VVRNALFCLESARKTAQEGDHGSHVYTKDLLAYAFALAGNQDKRKEVLKSLNEEA VKKDNSVHWERPQKPKA  
PVGDFYEPQAPSAEEMTSYVLLAYLTAQPAPTSDELTSATNIVKWKTKQQAQGGFSSTQDTVVALHALSK  
YGAATFTRTGKAAQVTIQSSGTFSSKFQVDNNRLLLQQVSLPELPGEYS MKVTGEGCVYLQTS LKYNILPE  
KEEFPFALGVQTLPTCDEPKAHTSFQISLSVSYTGSRASNM AIVDKMVSGFIPLKPTVKMLERSNHVSR  
TEVSSNHVLIYLDKVSNTLSLFFTVLQDVPVRDLKPAIVKVYDYYETDEF AIAEYNAPCSKDLGNA

**FIGURE 1**

**A**

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1 aggggcctta gcgtgccgca tcgccgagat ccagcgccca gagagacacc agagaaccca
61 ccatggcccc ctttgagccc ctggcttctg gcacccctgtt gttgctgtgg ctgatagccc
121 ccagcagggc ctgcacctgt gtcccacccc acccacagac ggccttctgc aattccgacc
181 tcgtcatcag ggccaagtcc gtggggacac cagaagtcaa ccagaccacc ttataccagc
241 gttatgagat caagatgacc aagatgtata aagggttcca agccttaggg gatgccgctg
301 acatccggtt cgtctacacc cccgccatgg agagtgtctg cggatacttc cacagggtccc
361 acaaccgcag cgaggagttt ctcatgtctg gaaaactgca ggatggactc ttgcacatca
421 ctacctgcag tttcgtggct ccctggaaca gcctgagctt agctcagcgc cggggcttca
481 ccaagaccta cactgttggc tgtgaggaat gcacagtgtt tccctgttta tccatccctt
541 gcaaactgca gagtggcact cattgcttgt ggacggacca gctcctccaa ggctctgaaa
601 agggcttcca gtcccgtcac cttgcctgcc tgcctcggga gccagggctg tgcacctggc
661 agtccctgcg gtcccagata gcctgaatcc tgcccggagt ggaactgaag cctgcacagt
721 gtccaccctg ttcccactcc catctttctt ccggacaatg aaataaagag ttaccaccca
781 gc
```

**B**

MAPFEPLASGILLLLWLIAPSRACCTCVPPHPQTAF CNSDLVIRAKFVGTP EVNQTTLYQRYEIKMTKMYKG  
FQALGDAADIRFVYTPAMESVCGYFHRSHNRSEEF LIAGKLQDGLLHITTC SFVAPWNSLSLAQRRGFTKT  
YTVGCEECTVFPCLSI PCKLQSGTHCLWTDQLLQ GSEKGFQSRHLACLPREPGLCTWQSLRSQIA

FIGURE 2

10087183.022802